

KING ET AL.  
"Satellite Positioning System Receiver With  
Reference Oscillator Circuit And Methods Therefor"  
Atty. Docket No. CS11407

Appl. No. 09/937,510  
Confirm. No. 6550  
Examiner B. Tieu  
Art Unit 2643

### Allowability of Claims Over Forseth

#### Rejection Summary

Claims 11-13 stand rejected under 35 USC 102(b) as being unpatentable over U.S. Patent No. 5,940,027 (Forseth). Office Action, 31 August 2004, para. 2.

#### Allowability of Claim 11

Regarding Claim 1, contrary to the Examiner's assertion, Forseth fails to disclose or suggest an

... method in a location enabled mobile wireless receiver having an oscillator, comprising:  
determining a first frequency error of the oscillator;  
determining a temperature based time rate of change of the frequency error of the oscillator;  
determining a subsequent frequency error based on the temperature based time rate of change of frequency error and the first frequency error.

Forseth et al. disclose calculating control or frequency correction signals based on a look-up table containing correlated frequency error and temperature data. The Examiner's references to various passages of Forseth are misplaced and do not meet the limitations of Claim 11. At col. 5: 1-21, Forseth discusses the Low Power Time Source (LPTS) architecture of FIG. 4, including an uncompensated frequency source. At col. 5: 21-31, Forseth discusses generation of the look-up table that contains correlated oscillator

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frequency error and temperature data. At col. 5: 32-39, Forseth discusses using the look-up table to determine frequency error correction or control signals required to provide a stabilized average frequency. Claim 11 is thus patentably distinguished over Forseth.

#### Allowability of Claim 12

Regarding Claim 12, Forseth fails to disclose or suggest, in combination with the limitations of Claim 11,

...determining a temperature based time rate of change of the oscillator frequency error based on Beckmann curve data.

The Examiner's reference to col. 3: 13-47 of Forseth in support of the rejection of Claim 12 is misplaced. The referenced passage of Forseth discusses modeling a relationship between oscillator frequency and temperature using a parabolic function as illustrated in FIG. 3 of Forseth. There is no indication that Forseth uses Beckman data to determine a temperature based time rate of change of oscillator frequency. Claim 12 is thus further patentably distinguished over Forseth.

#### Allowability of Claim 13

Regarding Claim 13, Forseth fails to disclose or suggest, in combination with the limitations of Claim 11,

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... determining a temperature based time rate of change of the oscillator frequency error based upon stored temperature versus frequency data and stored learning data.

The Examiner's reference to col. 3: 48 – col. 4: 66 of Forseth to support the rejection of Claim 13 is also misplaced. In the referenced passage, Forseth discusses using the look-up table to accommodate deviations in the parabolic model representative of the relation between oscillator frequency and temperature. Claim 13 is thus further patentably distinguished over Forseth.

#### Allowed and Allowable Claims

Claims 1-10 and 21-27 stand allowed. Claims 14-20 stand objected to for dependence on rejected base claims, but were indicated as being allowable if re-written in independent form. In view of the discussion above, original Claims 11-20 are believed to be allowable over the art of record.

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**Prayer For Relief**

In view of any amendments and the discussion above, the Claims of the present application are in condition for allowance. Kindly withdraw any rejections and objections and allow this application to issue as a United States Patent without further delay.

Respectfully submitted,



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